

APRIL/MAY 2024

**GCA32/DCA32 — UNIX AND SHELL
PROGRAMMING**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What is Shell?
2. Mention the use of 'who' command.
3. Specify the purpose of 'banner' command
4. What is the use of 'touch' command?
5. What is meant by Interactive Shell script?
6. Mention the syntax of 'if-then-fi' statement.
7. How to read from a file using 'while' loop?
8. What are Command line arguments?
9. Define the term — System calls.
10. What is Interprocess communication?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Discuss on Storage of Files.

Or

- (b) Explain the way of using a Raw Disk and monitoring System usage.

12. (a) Describe the features of Vi editor.

Or

- (b) Discuss on the importance of 'write' and 'wall' commands with an examples.

13. (a) Explain the use of Logical operators and Case control structure.

Or

- (b) Describe the method of passing Command Line arguments and setting Values of Positional parameters.

14. (a) Discuss on the method of creating Nested directories, generating Values for a 'for' loop, and the purpose of 'break', 'continue' statements.

Or

- (b) Explain the method of writing a Shell script using Command line arguments with an example.

15. (a) Describe about the File structure related calls and the purpose of functions.

Or

- (b) Discuss on the basics of Interprocess communication calls and pipe() function.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe about Unix File system, the method of creating and listing Files, Directories.

17. Explain the File related Commands in detail.

18. Discuss on Shell Variables, Shell Keywords, assigning Values to Variables, and Positional parameters.

19. Describe the syntax of 'while', 'until' and 'for' loops with an examples.

20. Explain the Process related calls and the purpose of different functions.